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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	Czechoslovakia	REPORT	
SUBJECT	Vitkovice Klement Gottwald Iron Works: Pipe-Rolling Mill No. 1	DATE DISTR.	26 May 1954
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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
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(FOR KEY SEE REVERSE)

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1. The Pipe-Rolling Mill No. 1 is a part of the Vitkovice Iron Works, situated along the Ostrava-Vitkovice highway. It begins near the Hlubina valley and reaches to the Hrabovka river. On the south side of the highway, not far from the Hlubina dale, are three older blast furnaces. Near the road is the coke plant, which consists of several furnaces, 15 meters wide and 60 meters long. Beyond the coke plant is the machine shop for the machining of castings from the foundry. The building has a ferro-concrete frame, 150 x 200 meters. Past the machine shop is the foundry, which is also of ferro-concrete and is 400 x 200 meters. All kinds of castings are made here. Not far from the foundry is the storage of ores for the blast furnace. Ore is brought here by rail. A narrow-gauge railroad leads to the foundry. It connects the rolling mill and the new steel works, and joins the main railroad line near the highway. West of the blast furnaces on the south side of the Ostrava-Vitkovice highway stands Pipe-Rolling Mill No. 1.
2. Pipe-Rolling Mill No. 1 is a ferro-concrete building, extending 500 meters along the road and 225 meters deep. A railroad track runs through the center of this building.
 - a. Machinery of Rolling Mill No. 1 consists of four rolling installations. Two of these are of the Mannesmann type for rolling steel pipes in diameters of 57 to 16 inches, with various thicknesses of walls. The capacity of the large Mannesmann rolling installation is 66 to 32 pipes ((sic) 15 meters long, per eight-hour shift. The capacity of the smaller Mannesmann rolling installation is 350 to 450 pipes, 15 meters long, per shift. The rolling installation, Stiefel type, produces 59 to 135 mm. diameter pipes of optional thickness of walls. Its capacity is 400 to 600 pipes in one shift. The fourth rolling

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25 YEAR
RE-REVIEW

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installation, Seuthe type, rolls 15 to 50 mm. diameter pipes. Its capacity is 600 to 900 pipes per shift. This is not a seamless-pipe track like the Mannesmann and Stiefel type, but rolls only welded pipes. A new drawing machine of Soviet type was put into operation last February. It produces 16 pipes per shift.

b. Description of the rolling mill: Entry is through the gatekeeper's room on the Vitkovice-Ostrava highway. Not far from it is a water container. In the courtyard are the trainees' billets. Next to them is the storeroom for oxygen bombs and firefighting equipment. Along the side of the main building runs the joiners' shop. On the opposite side of the courtyard are laboratories. Behind them is the forge with five forging hammers, one piercing press, and 6 drilling machines, as well as 5 lathes and 2 vertical lathes. Next to the forge is the pressing shop with nine hydraulic presses. Two of these have a capacity of 500 tons; one, a capacity of 300 tons; and two, a capacity of 150 tons. The rest are smaller, of a standard type. Along the other road is the finishing shop where finished products are checked. In the western part of the building, next to the finishing and the pressing shop, is the department for straightening pipes. Colored strips are attached to the pipes, according to the quality of the steel. Adjoining the Stiefel track is the rough drawing shop, where they draw pipes that cannot be rolled. This shop is equipped with three drawing machines. The mechanical workshop of the pipe-rolling mill is located next to the finishing and drawing shop. It is furnished with 25 miscellaneous machines for machining pipes, such as lathes, drilling machines, milling machines, vertical lathes, and other machine tools. Next to this shop is the pickling shop, equipped with nine tubs sunk into the floor and filled with H_2SO_4 , $HClO_3$, and phosphates. Next is the zinc-plating shop with a tub filled with zinc solution. Along the east side are the stores of finished products. Near the small Mannesmann installations there is another finishing shop, and adjoining this, a fine drawing shop for drawing of small diameter pipes. It is equipped with seven drawing machines. Past that is another finishing shop where they pack and ship the finished products. In the reduction shop pipes are being drawn under heat. In the shop for tempering pipes is one tempering furnace.

3. The pipe-rolling mill manufactures pipes of all kinds in 5.5 mm. - 16 inches diameter. All are steel pipes, of various types: water and gas pipes, drainage pipes, pipes for high-pressure boilers, for drilling of crude oil, as well as furniture pipes. 70% of the output, especially the drilling, water, and gas pipes, goes to the USSR. Pipes are also exported to Bulgaria, Rumania, and China.
4. Pipe-Rolling Mill No. 1 has approximately 1,200 employees, of whom 500 are women, mostly employed in the finishing shop and in the mechanical workshop. Women also operate cranes and are members of the technical staffs in the laboratories. The plant employs some 100 to 150 brigade workers in the main production. The rolling tracks are operated chiefly by expert operators. There are some 160 trainees. The plant has a rolling installation for training purposes. The rolling mill is a shock-working plant, fulfilling the Five-year Plan as much as 106-107%.
5. Since November 1952, there has been a perceptible shortage of materials and gas, and some work had to be stopped. The material often contained sand, caused by insufficient smelting.
6. Electric current is supplied by the Vitkovice power plant and gas by the coke plant.
7. Other Plants: West of Pipe-Rolling Mill No. 1 is a screw-cutting shop. It is 250 meters long and 150 meters wide. All kinds of screws and rivets are

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produced here. Next to this building is the water gas welding shop (sic). It is of ferro-concrete structure, 250 meters long and 100 meters wide, a plant for manufacturing welded pipes. Adjoining this is a brick building, 20 x 40 meters, of two stories, containing a blueprinting shop. Behind the welding and screw cutting shops is the bridge construction shop. It is a ferro-concrete building, some 300 meters long and 250 meters wide, for the manufacture of bridges, as well as mining towers, towers for crude-oil drilling and for high tension pillars. On the opposite side of the road is the hospital of the Vitkovice Iron Works. East of the hospital is the machine shop. This building is approximately 80 meters wide and 250 meters long. Adjoining it is the power plant, next to which are offices of the machine shop and of the power plant. The power plant is 200 x 200 meters in size, and supplies electric current to the whole Vitkovice region. Near the machine shop is the fire house of the Vitkovice Iron Works. On the opposite side of the road is a park. Next to the park, in a four-story building, 40 x 60 meters, is the management of the iron works. Adjoining it is the bank. In the western part of the park is a small three-story manor which today contains offices of the C.P., ROH (Trade Union), and SCM (Youth Organization) secretariats. Reception offices for the personnel department of the iron works and for the bridge-construction department are located in a brick two-story building. Close to it stands the trainees' school, a 20 x 50 meters building, of three stories. Near the crossing of the railway line and the highway to Hrabuvka is the Moravskoslezska Armaturka (Moravian-Silesian Armature Works) in a ferro-concrete building, 300 x 300 meters. It manufactures water pipe fittings. West of this building are the old steel works, 300 x 400 meters. They are equipped with steel furnaces for production of steel to be supplied to the iron works.

8. The New Steel Works, Cold and Hot Rolling Mills: This building lies some 1,000 meters north of the old steel works. It is located in a loop formed by the railway line, in a ferro-concrete building, 600 x 100 meters. These steel works contain a set of steel furnaces. Steel from here is supplied to the Vitkovice Iron Works Pipe-Rolling Mill No. 1. Next to it is the hot rolling mill, also of ferro-concrete, 700 x 400 meters. Here they manufacture all kinds of profiles, rails, girders, etc. The cold rolling mill is of ferro-concrete construction, 100 x 600 meters. It manufactures strip steel and steel for razor blades.

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Legend

(Numbers 1-6 refer to sketch "B")

1. Three blast furnaces.
2. Machine shop.
3. Coke plant.
4. Welding shop.
5. Stores of ore.
6. RR sidings.

Pipe-Rolling Mill No. 1: (Numbers 7-32 refer to sketch "C")
 (" 33-46 " " " "B")
 (" 47-50 " " " "A")

7. Rolling installation, Mannesmann.
8. Smaller Mannesmann installation.
9. Stiefel installation.
10. Combination of Stiefel and Mannesmann installation.
11. Drawing machine, Soviet type.
12. Gatekeeper's room.
13. Water container.
- 14 & 15. Trainees' billets.
16. Store of oxygen bombs.
17. Joiners' shop.
18. Laboratories.
19. Forge.
20. Pressing shop.
21. Finishing shop.
22. Department for straightening pipes.
23. Three drawing machines.
24. Mechanical workshop.
25. Pickling shop.
26. Tempering shop.
27. Store of finished products.
28. Finishing shop.
29. Seven drawing machines.
30. Finishing shop and shipping department.
31. Shipping.
32. Tempering shop.
33. Screw-cutting shop.
34. Welding shop.
35. Blueprinting office.
36. Bridge construction department.
37. Hospital.
38. Machine shop.
39. Power plant.
40. Fire station.
41. Park.
42. Management of the Vitkovice Iron Works.
43. Bank.
44. Offices of the C.P., ROH (Trade Union), and SCM (Youth Organization) secretariats.
45. Reception offices for the personnel department.
46. Trainees' school.
47. Moravskoslezská Armaturka (Moravian-Silesian Armature Works).
48. Old steel works.
49. Railroad track.
50. Hot rolling mill.

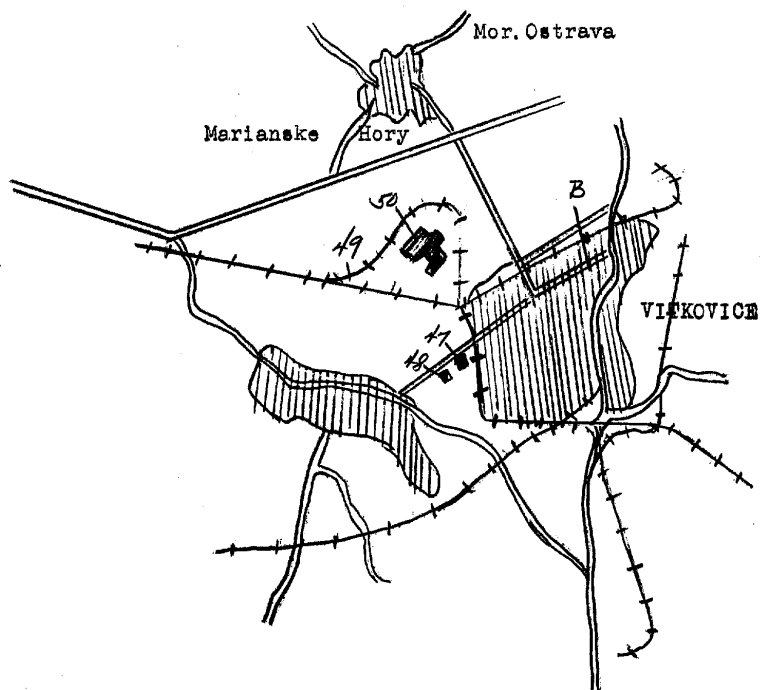
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Sketch "A"



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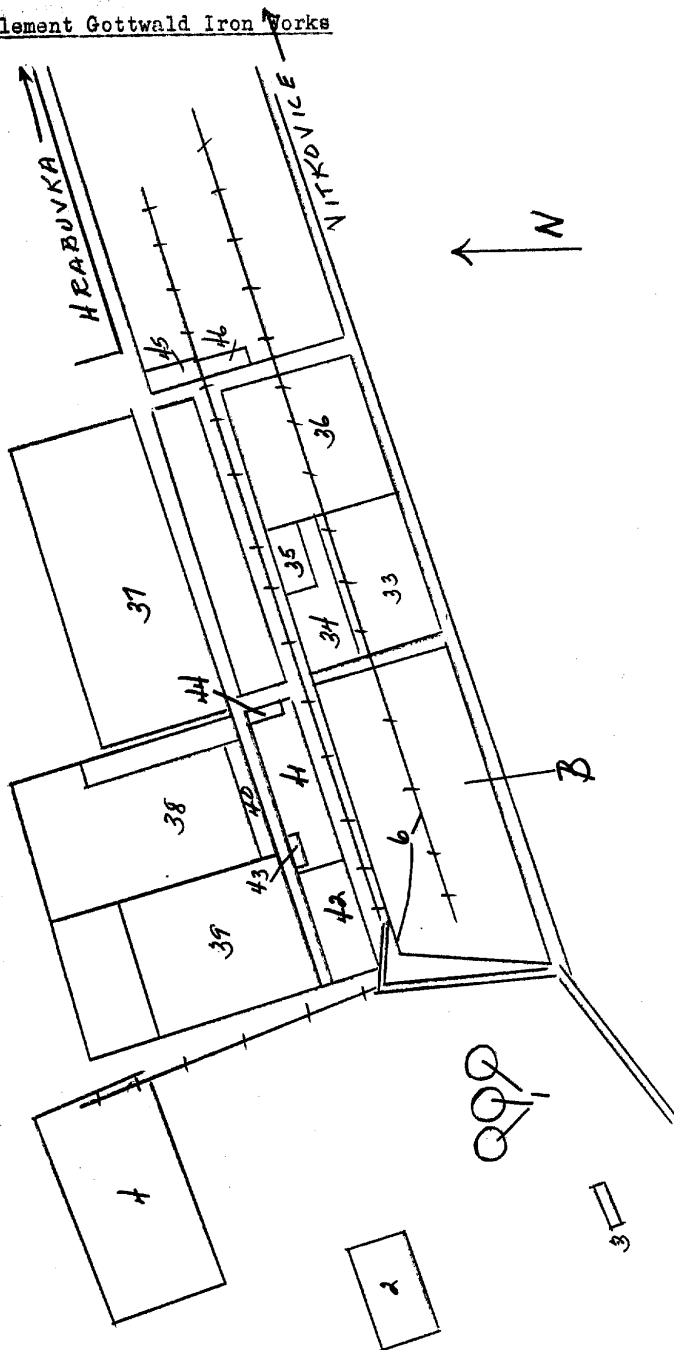
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Sketch "B"

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Plant of Vitkovice Klement Gottwald Iron Works

Scale 1:1,000



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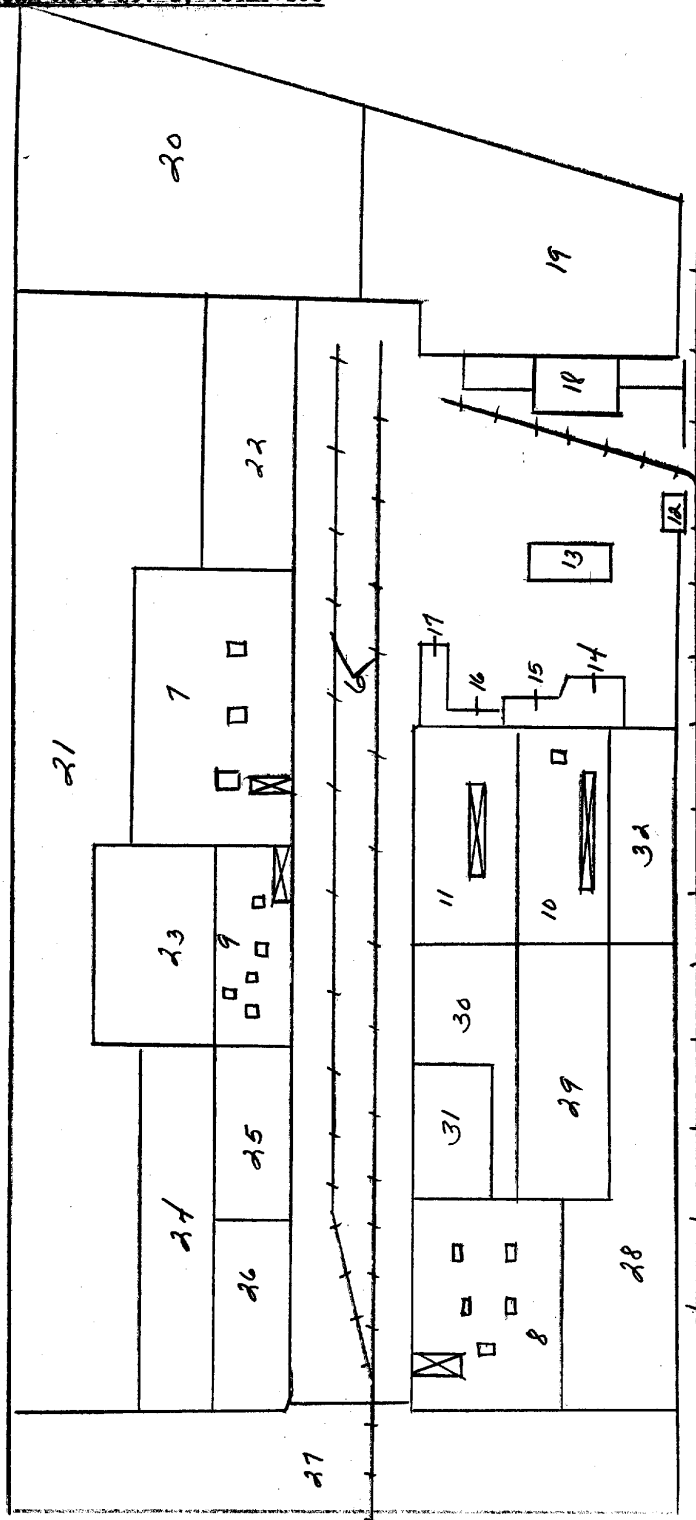
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Sketch "C"

Pipe-Rolling Mill No. 7 Vitkovice

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Scale 1:2,000 1:2,000

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